CLAIMS:

1. A tilt correction method for correcting an inclination of an object lens relative to an information recording medium, comprising the steps of:

detecting the inclination of the object lens relative to the information recording medium,

producing a direct current signal for correcting the inclination of the object lens;

superposing an alternating current signal having a prescribed signal characteristic onto the direct current signal to produce a driving signal; and

correcting the inclination of the object lens using a driving mechanism operated by the driving signal.

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2. The method of claim 1, wherein the alternating current signal is produced such that the prescribed signal characteristic varies depending on a tilt correction condition.

5 3. The method of claim 1, further comprising the step of:

stopping the superposition of the alternating current signal when the inclination is substantially corrected and supplying only the direct current signal as the driving signal to the driving mechanism.

15 4. The method of claim 1, wherein the alternating current signal is produced such that the amplitude of the alternating current signal gradually decreases during at least a portion of a period for supplying the alternating current signal.

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5. The method of claim 1, wherein the alternating current signal is produced such that the frequency of

the alternating current signal gradually increases during at least a portion of a period for supplying the alternating current signal.

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6. The method of claim 1, wherein the alternating current signal is produced such that the amplitude of the alternating current signal gradually decreases, while the frequency of the alternating current signal gradually increases, during at least a portion of a period for supplying the alternating current signal.

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7. The method of claim 1, wherein the driving signal is a voltage signal.

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8. The method of claim 1, wherein the inclination of the object lens is corrected by driving a movable

part that holds the object lens against friction between the movable part and a shaft supporting the movable part.

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9. A tilt driving signal generating circuit for generating a driving signal used to drive a movable
 10. part holding an object lens to correct an inclination of the object lens relative to an information recording medium; comprising:

a first input terminal for receiving a direct current signal representing information about the inclination of the object lens; and

a superposition unit for superposing an alternating current with a prescribed signal characteristic onto the direct current signal to produce the driving signal.

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10. The driving signal generating circuit of claim 9, further comprising: a second input terminal for receiving the alternating current signal.

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- 11. A tilt correction apparatus for correcting an inclination of an object lens relative to an information recording medium, comprising:
- a tilt detection unit that detects the inclination of the object lens relative to the information recording medium;
 - a first signal generating circuit that produce a direct current signal representing information about the inclination of the object lens;
 - a second signal generating unit that superposes an alternating current signal having a prescribed signal characteristic onto the direct current signal to produce a driving signal; and
- a driving mechanism that corrects the inclination of the object lens relative to the information recording medium in response to the driving signal.

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12. The tilt correction apparatus of claim 11, wherein the second signal generating unit superposes the alternating current signal having a variable signal characteristic onto the direct current signal, the signal characteristic varying according to a tilt correcting condition.

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13. The tilt correction apparatus of claim 11, wherein the second signal generating unit stops superposition when the inclination is substantially corrected, and thereafter outputting only the direct current signal to the driving mechanism.

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14. The tilt correction apparatus of claim 12, wherein the second signal generating unit superposes the alternating current signal having variable amplitude that gradually decreases during at least a portion of the superposing period.

5 15. The tilt correction apparatus of claim 12, wherein the second signal generating unit superposes the alternating current signal having variable frequency that gradually increases during at least a portion of the superposing period.

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16. The tilt correction apparatus of claim 12,

wherein the second signal generating unit superposes
the alternating current signal having variable
amplitude that gradually decreases during at least a
portion of the superposing period and variable
frequency that gradually increases during said

portion of the superposing period.

25 17. The tilt correction apparatus of claim 11,

wherein the driving mechanism rotates a movable part holding the object lens about a shaft against friction between the movable part and the shaft.

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- 18. An optical disk apparatus for performing at least one of recording, reproducing and erasing operations with respect to an information recording medium, comprising:
 - a light source for emitting a light beam;
 an optical system including an object lens for
 concentrating the light beam onto a recording side of
 the information recording medium and for guiding a
 return light beam reflected from the recording side
 to a predetermined light receiving position;
 - a photodetector positioned at the light receiving position;
- a processing unit that carries out at least one of the recording, reproducing, and erasing operations based on an output signal from the photodetector;
 - a tilt detection unit that detects inclination of the object lens relative to the information recording medium;

a first signal generating circuit that produces a direct current signal representing information about the inclination of the object lens;

a second signal generating unit that superposes

an alternating current signal having a prescribed signal characteristic on the direct current signal to produce a driving signal; and

a driving mechanism that corrects the inclination of the object lens relative to the information

10 recording medium in response to the driving signal.